UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

4SESD-EIB

MEMORANDUM

SUBJECT: Addendum to Katrina Response Environmental Soil and Sediment Sampling, Gulf Coast of Mississippi.

FROM: Fred Sloan
Superfund and Air Section

THRU: Mike Peyton, Director
Science and Ecosystem Support Division

TO: Henry Folmar, Chief
MDEQ

This memorandum has been prepared as an addendum to the report *Katrina Response Environmental Soil and Sediment Sampling, Gulf Coast of Mississippi*, issued January 17, 2006. The data discussed here was not available when the original report was prepared, and the decision was made at that time to not delay issuing the report. That report should be referred to for a complete understanding of this dataset (http://www.epa.gov/region4/sesd/sesdpub_completed.html). In addition, samples collected for the *Water Quality Study of Bays in Coastal Mississippi Water Quality Report* were used in this memorandum. Please refer to that report (http://www.epa.gov/region4/sesd/sesdpub_completed.html) for a comprehensive explanation of that data. **Table 1** provides a short summary of the sample locations and rationale. **Figure 1** shows the locations of the facilities on the Mississippi Gulf Coast.

DuPont – DeLisle, Pass Christian

The facility location can be seen in **Figure 2**, sample locations are shown in **Figure 4**. Five soil and sediment samples were re-collected from the original locations of the primary report referenced above. The samples were analyzed for dioxin only. The results are provided in **Table 2**. Samples SLB2SD and SLB6SD shown in **Figure 4** (results in **Table 3**) were collected as part of another study *Water Quality Study of Bays in Coastal Mississippi Water Quality Report, October 28, 2005*. Lab data sheets for all analyses are attached to this memorandum.

Data from soil and sediment data reporting dioxin concentrations in the vicinity of the facility prior to Hurricane Katrina was not available for comparison. Sampling data were evaluated against available risk-based human health screening values. Many of the data points for these contaminants are "J" flagged, indicating uncertainty in the concentration. This uncertainty, however, is common in reported site data. There are no apparent site specific data uncertainties that cast significant doubt on the results or on the conclusions herein.

Detections of dioxin 2,3,7,8-TCDD toxic equivalents (TEQ) did not exceed the residential EPA Region 9 preliminary remediation goal (PRG) of 3.9 ng/kg at sampling locations in the vicinity of residential development (DU2-SF-03, DU2-SF-04, DU2 SF-05). Detected levels of dioxin TEQ at sampling point DU2-SD-02 did not exceed the commercial/industrial PRG of 16 ng/kg, however the detected concentration at location DU2-SD-01 (41J ng/kg) did exceed the commercial/industrial PRG. The concentration at this location fell within a theoretical lifetime cancer risk range of 1 in 1,000,000 to 1 in 10,000 risk of an individual developing cancer over a lifetime of exposure to those concentrations, which USEPA has found acceptable in other contexts. In addition, since sampling location DU2-SD-01 is within an area of heavy vegetation adjacent to an industrial area it is unlikely that there would be an opportunity for significant human contact with any contaminated soil and sediment. All detected dioxin levels are well below EPA's residential clean up criteria of 1000 ng/kg.

None of the concentrations detected were at levels of concern in regard to protection of human health. There is no clear indication of a release in the area of the facility due to the effects of Hurricane Katrina.

Naval Construction Battalion Center, Gulfport

The facility location can be seen in **Figure 3**, sample locations are shown in **Figure 5**. Five sediment samples were re-collected from the original locations of the primary report referenced above (no data is available from the original samples due to quality control errors in the laboratory). The samples were analyzed for dioxin only. The results are provided in **Table 4**. An additional four samples (PNC-SD-01, PNC-SD-02, PNC-SD-03, and PNC-SD-04) were collected at the request of MDEQ and analyzed for PCBs only. These samples were collected to address concerns expressed at a public meeting of possible PCB contamination in this ditch. No PCBs were reported in these samples. Lab data sheets for all analyses are attached to this memorandum.

Sampling data were evaluated against existing environmental sampling results and compared to available risk-based human health screening values. Many of the data points for these contaminants are "J" flagged, indicating uncertainty in the concentration. This uncertainty, however, is common in reported site data. There are no apparent site specific data uncertainties that cast significant doubt on the results or on the conclusions herein.

Detections of dioxin 2,3,7,8-TCDD toxic equivalents (TEQ) exceeded the residential PRG of 3.9 ng/kg at sampling points NC2-SD-02 (11J ng/kg); NC2-SD-03 (4.4J ng/kg) and NC2-SD-05 (5.1J ng/kg), but fell within a theoretical lifetime cancer risk range of 1 in 1,000,000 to 1 in 10,000 risk of an individual developing cancer over a lifetime of exposure to those concentrations, which USEPA has found acceptable in other contexts.

These sampling locations are within an area of heavy vegetation, and it is unlikely that there would be an opportunity for significant human contact with any contaminated soil and sediment. The analytical results for these five samples reported concentrations well within the range of reported TEQ levels from pre-hurricane sediment/soil samples from this site. All are well below EPA's residential clean up criteria of 1000 ng/kg for dioxin.

Relevant Pre-Hurricane Katrina Sediment Sampling Analysis at NCBC (Off Site Locations)

Location	**Number of Samples Collected**	**Maximum Concentration (TEQ ng/kg)**	**Maximum 2,3,7,8-TCDD Concentration (ng/kg)**	**Dates Samples Collected**
Off-Site Sediments (All samples collected during the Phase I & II Investigation)	37	61	NA	April 1997 - February 1999[1]
OBAOC (Swampy area north of NCBC)	86	418 Range: 0.3—418	NA	May 1997 - October 1997[2]
Turkey Creek (All) Turkey creek (Downstream)	10 2	11.3 6.7	1 ND	March 1999[3]
North of NCBC (28th Street)	10	35.5	ND	October 2002[4]
North of Turkey Creek/ Canal Road	2	3.9	0.3	October 2002[4]
Confirmatory samples for area adjacent to the Canal Road culverts	2	5.5	0.65	April 2003[5]
Community Sample (Canal Road)	2	Range: 1.9—23	NA	March 2004[6]

Sources:
[1] Harding Lawson. 2001. Human Health Risk Assessment and Screening Level Ecological Risk Assessment. March 2001.
[2] Harding Lawson. 1999. Surface Water and Sediment Dioxin Delineation Report. June 1999;
Tetra Tech NUS, Inc. 2003. Human Health risk Assessment of Groundwater Associated with Site 8. February 2003.
[3] Harding Lawson. 1999. Tier 1 Screening Level Fish/Sediment Sampling Results. November 1999.
[4] Tetra Tech NUS, Inc. 2003. Off-base Community Sampling Report. May 2003.
[5] Tetra Tech NUS, Inc. 2003. Letter Report for Sediment Removal Adjacent to Canal Road Culverts, NCBC. April 2003.
[6] Robert Fisher, Tetra Tech, Personal Communication , April 13, 2004.

TEQ = Toxic Equivalents as 2,3,7,8 TCDD
ND = The analyte was analyzed for, but was not detected above the reported sample quantitation limit
NA= Data not available
OBAOC = Off-base Area of Concern

There does not appear to be any significant detrimental change in concentrations of site-related chemicals at the sampled locations. None of the concentrations detected were at levels of concern in regard to protection of human health. Based on these sampling results, EPA does not believe the site was adversely impacted by Hurricane Katrina.

Table 1 Sample Rationale and Locations				
Facility	Sample ID	Grab or Composite	Location	Rationale
DuPont DeLisle	DU2-SD-01	Grab (0”-3”)	Dirt road and canal southwest of Site	Evaluate potential for hazardous constituents to have drained from site via ditch.
DuPont DeLisle	DU2-SD-02	Grab (0”-3”)	Dirt road at well south of site	Evaluate potential for hazardous constituents to have drained from site via ditch.
DuPont DeLisle	DU2-SF-03	3 point composite (0”-3”)	South of swale along Kiln DeLisle Rd.	Evaluate potential for hazardous constituents to have moved North with storm surge.
DuPont DeLisle	DU2-SF-04	3 point composite (0”-3”)	South of swale along Kiln DeLisle Rd.	Evaluate potential for hazardous constituents to have moved North with storm surge.
DuPont DeLisle	DU2-SF-05	4 point composite (0”-3”)	South of swale along Kiln DeLisle Rd.	Evaluate potential for hazardous constituents to have moved North with storm surge.
NCBC Gulfport	NC2-SD-01	Grab (0”-3”)	Wetland North of NCBC	Evaluate potential for TCDD to have redoposited in remediated portion of wetland due to storm surge
NCBC Gulfport	NC2-SD-02	Grab (0”-3”)	Wetland North of NCBC	Evaluate potential for TCDD to have redoposited in remediated portion of wetland due to storm surge
NCBC Gulfport	NC2-SD-03	Grab (0”-3”) sediment trap	Wetland North of NCBC	Evaluate potential for TCDD to have redoposited in remediated portion of wetland due to storm surge
NCBC Gulfport	NC2-SD-04	Grab (0”-3”)sediment trap	Wetland North of NCBC	Evaluate potential for TCDD to have redoposited in remediated portion of wetland due to storm surge
NCBC Gulfport	NC2-SD-05	Grab (0”-3”) sediment trap	Wetland North of NCBC (Edwards tract)	Evaluate potential for TCDD to have redoposited in remediated portion of wetland due to storm surge

NCBC Gulfport	PNC-SD-01	Grab (0”-3”)	Ditch	Make initial determination for presence or absence of PCBs in unnamed ditch draining NCBC
NCBC Gulfport	PNC-SD-02	Grab (0”-3”)	Ditch	Make initial determination for presence or absence of PCBs in unnamed ditch draining NCBC
NCBC Gulfport	PNC-SD-03	Grab (0”-3”)	Ditch	Make initial determination for presence or absence of PCBs in unnamed ditch draining NCBC
NCBC Gulfport	PNC-SD-04	Grab (0”-3”)	Ditch	Make initial determination for presence or absence of PCBs in unnamed ditch draining NCBC

Table 2
Dioxin Analyses
DuPont – DeLisle
Pass Christian, Mississippi
November, 2005

		DU2SD01		DU2SD01D		DU2SD02		DU2SF03		DU2SF04		DU2SF05		DU2SF05S	
		825		825		935		1110		1050		1030		1030	
		11/16/2005		11/16/2005		11/16/2005		11/16/2005		11/16/2005		11/16/2005		11/16/2005	
% Moisture	%	78		78		16		10		9		10		9	
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	NG/KG	460		450		67		63		97		10		10	
1,2,3,4,6,7,8-Heptachlorodibenzofuran	NG/KG	220		210		*2.5*	*U*	*14*	*U*	32		3	J	3	J
1,2,3,4,7,8,9-Heptachlorodibenzofuran	NG/KG	120		110		0.35	J	0.88	J	1.3	J	0.39	J	0.4	J
1,2,3,4,7,8-Hexachlorodibenzodioxin	NG/KG	5.1	J	5.2	J	1	J	1.2	J	1.6	J	0.27	J	0.26	J
1,2,3,4,7,8-Hexachlorodibenzofuran	NG/KG	140		140		0.55	J	0.73	J	0.69	J	*0.36*	*U*	0.34	J
1,2,3,6,7,8-Hexachlorodibenzodioxin	NG/KG	13	J	12	J	1.9	J	2.5	J	3.4	J	0.56	J	0.53	J
1,2,3,6,7,8-Hexachlorodibenzofuran	NG/KG	17		17		0.25	J	0.57	J	0.75	J	*0.23*	*U*	*0.23*	*U*
1,2,3,7,8,9-Hexachlorodibenzodioxin	NG/KG	19		20		*0.55*	*U*	2.7	J	3.4	J	0.46	J	0.35	J
1,2,3,7,8-Pentachlorodibenzodioxin	NG/KG	2.3	J	2.3	J	0.5	J	0.63	J	0.57	J	0.18	J	*0.16*	*U*
1,2,3,7,8-Pentachlorodibenzofuran	NG/KG	23		22		*0.35*	*U*	0.24	J	0.21	J	0.2	J	*0.21*	*U*
2,3,4,6,7,8-Hexachlorodibenzofuran	NG/KG	9.2	J	8.7	J	*0.31*	*U*	*0.87*	*U*	*1.2*	*U*	*0.29*	*U*	*0.30*	*U*
2,3,4,7,8-Pentachlorodibenzofuran	NG/KG	5.8	J	5.2	J	*0.31*	*U*	0.43	J	0.25	J	0.24	J	*0.22*	*U*
2,3,7,8-Tetrachlorodibenzodioxin	NG/KG	0.53	J	*0.55*	*U*	*0.18*	*U*	*0.14*	*U*	*0.15*	*U*	*0.064*	*U*	*0.074*	*U*
Heptachlorodibenzodioxin (Total)	NG/KG	1500	J	1500	J	200	J	120	J	180	J	23	J	23	J
Heptachlorodibenzofuran (Total)	NG/KG	520		480	J	200	J	23	J	75	J	6.8	J	3.7	J
Hexachlorodibenzodioxin (Total)	NG/KG	520	J	520	J	65	J	19	J	23	J	3	J	4.4	J
Hexachlorodibenzofuran (Total)	NG/KG	250	J	230	J	3	J	13	J	22	J	2.9	J	3.3	J
Octachlorodibenzodioxin	NG/KG	8100		8100		1500		640		770		110		110	
Octachlorodibenzofuran	NG/KG	4800		4500		8.4	J	52		80		11		12	
Pentachlorodibenzodioxin (Total)	NG/KG	78	J	78	J	10	J	2.3	J	1.3	J	0.58	J	0.26	J
Pentachlorodibenzofuran (Total)	NG/KG	93	J	92	J	0.83	J	5.8	J	3.5	J	1.8	J	1.7	J
TEQ (Avian Toxic. Equiv. Value)[1]	NG/KG	35	J	34	J	1.7	J	2.1	J	2.4	J	0.63	J	0.59	J
TEQ (Fish Toxic. Equiv. Value)[1]	NG/KG	46	J	46	J	1.9	J	2.2	J	2.3	J	0.87	J	0.83	J
TEQ (Mammalian Toxic. Equiv)[1]	NG/KG	41	J	40	J	2.6	J	2.8	J	3.4	J	0.78	J	0.74	J
Tetrachlorodibenzodioxin (Total)	NG/KG	39	J	37	J	4.2	J	0.49	J	0.23	J	*0.064*	*UJ*	0.3	J
Tetrachlorodibenzofuran (Total)	NG/KG	57	J	54	J	5.2	J	3.1	J	1.1	J	1.5	J	1.6	J

U-Analyte not detected at or above reporting limit.
J-Identification of analyte is acceptable; reported value is an estimate.
[1] From WHO TEQ-98

Table 3
Dioxin Analyses
Bay St. Louis
Pass Christian, Mississippi
September, 2005

		SLB2SD		SLB6SD	
		1520		1040	
		9/30/2005		9/30/2005	
% Moisture	%	23		55	
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	NG/KG	50		330	
1,2,3,4,6,7,8-Heptachlorodibenzofuran	NG/KG	1.4	J	9.1	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	NG/KG	0.15	J	*1.1*	*U*
1,2,3,4,7,8-Hexachlorodibenzodioxin	NG/KG	0.56	J	3.9	
1,2,3,6,7,8-Hexachlorodibenzodioxin	NG/KG	1.1	J	7.5	
1,2,3,7,8,9-Hexachlorodibenzodioxin	NG/KG	2.3		16	
1,2,3,7,8-Pentachlorodibenzodioxin	NG/KG	0.22	J	1.2	J
Heptachlorodibenzodioxin (Total)	NG/KG	180	J	1200	J
Heptachlorodibenzofuran (Total)	NG/KG	3.4	J	22	J
Hexachlorodibenzodioxin (Total)	NG/KG	75	J	520	J
Hexachlorodibenzofuran (Total)	NG/KG	1.6	J	11	J
Octachlorodibenzodioxin	NG/KG	1100		5700	J
Octachlorodibenzofuran	NG/KG	3.2	J	19	
Pentachlorodibenzodioxin (Total)	NG/KG	11	J	84	J
Pentachlorodibenzofuran (Total)	NG/KG	0.57	J	6.1	J
TEQ (Avian Toxic. Equiv. Value)[1]	NG/KG	1.2	J	5.8	J
TEQ (Fish Toxic. Equiv. Value)[1]	NG/KG	1	J	5.3	J
TEQ (Mammalian Toxic. Equiv. Value)[1]	NG/KG	1.5	J	8.9	J
Tetrachlorodibenzodioxin (Total)	NG/KG	5.5	J	44	J
Tetrachlorodibenzofuran (Total)	NG/KG	0.74	J	7.9	J

U-Analyte not detected at or above reporting limit.
J-Identification of analyte is acceptable; reported value is an estimate.
[1] From WHO TEQ-98

Table 4
Dioxin Analyses
Naval Construction Battalion Center
Gulfport, Mississippi
November, 2005

		NC2SD01		NC2SD02		NC2SD02S		NC2SD03		NC2SD03D		NC2SD04		NC2SD05	
		1430		1415		1415		1350		1355		1335		1320	
		11/16/2005		11/16/2005		11/16/2005		11/16/2005		11/16/2005		11/16/2005		11/16/2005	
% Moisture	%	22		29		18		25		24		26		36	
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	NG/KG	18		150		140		41		46		44		71	
1,2,3,4,6,7,8-Heptachlorodibenzofuran	NG/KG	5.3		*23*	*U*	*22*	*U*	*5.6*	*U*	*6.5*	*U*	*6.0*	*U*	*8.0*	*U*
1,2,3,4,7,8,9-Heptachlorodibenzofuran	NG/KG	0.43	J	0.99	J	0.84	J	0.27	J	0.24	J	0.3	J	0.37	J
1,2,3,4,7,8-Hexachlorodibenzodioxin	NG/KG	0.33	J	1.9	J	1.9	J	0.38	J	0.39	J	0.5	J	*0.70*	*U*
1,2,3,4,7,8-Hexachlorodibenzofuran	NG/KG	*0.42*	*U*	1.4	J	*1.3*	*U*	*0.32*	*U*	*0.36*	*U*	*0.34*	*U*	*0.44*	*U*
1,2,3,6,7,8-Hexachlorodibenzodioxin	NG/KG	1.1	J	5.4		5		1.3	J	1.5	J	1.4	J	1.9	J
1,2,3,6,7,8-Hexachlorodibenzofuran	NG/KG	*0.33*	*U*	1.1	J	*1.1*	*U*	*0.29*	*U*	*0.32*	*U*	*0.32*	*U*	*0.41*	*U*
1,2,3,7,8,9-Hexachlorodibenzodioxin	NG/KG	*0.72*	*U*	12		11		5		5.4		3.8	J	6.7	
1,2,3,7,8,9-Hexachlorodibenzofuran	NG/KG	*0.18*	*U*	0.4	J	*0.24*	*U*	*0.11*	*U*	*0.11*	*U*	*0.11*	*U*	*0.11*	*U*
1,2,3,7,8-Pentachlorodibenzodioxin	NG/KG	*0.21*	*U*	1	J	0.99	J	*0.27*	*U*	*0.31*	*U*	*0.31*	*U*	0.42	J
2,3,4,6,7,8-Hexachlorodibenzofuran	NG/KG	*0.34*	*U*	1.5	J	*1.5*	*U*	*0.33*	*U*	*0.38*	*U*	*0.37*	*U*	*0.44*	*U*
2,3,7,8-Tetrachlorodibenzodioxin	NG/KG	0.8	J	5		4.8		2.6		3		1.8		2.5	
2,3,7,8-Tetrachlorodibenzofuran	NG/KG	0.35	J	*0.98*	*U*	*1.0*	*U*	0.48	J	*0.46*	*U*	0.31	J	*0.47*	*U*
Heptachlorodibenzodioxin (Total)	NG/KG	36	J	290	J	270	J	75	J	85	J	88	J	140	J
Heptachlorodibenzofuran (Total)	NG/KG	17	J	33	J	250	J	8	J	9.7	J	0.63	J	11	J
Hexachlorodibenzodioxin (Total)	NG/KG	7.7	J	68	J	64	J	20	J	22	J	20	J	35	J
Hexachlorodibenzofuran (Total)	NG/KG	8.7	J	29	J	23	J	5.1	J	6	J	5.5	J	7.2	J
Octachlorodibenzodioxin	NG/KG	130		2000		1900		490		560		740		1200	
Octachlorodibenzofuran	NG/KG	6.4	J	43		43		10		14		13		14	
Pentachlorodibenzodioxin (Total)	NG/KG	1.1	J	7.4	J	4.4	J	1	J	1.6	J	2.2	J	5.3	J
Pentachlorodibenzofuran (Total)	NG/KG	3.5	J	16	J	16	J	3.3	J	4.1	J	2.9	J	4	J
TEQ (Avian Toxic. Equiv. Value)[1]	NG/KG	0.78	J	3.7	J	3.5	J	0.95	J	1	J	1	J	1.5	J
TEQ (Fish Toxic. Equiv. Value)[1]	NG/KG	1.2	J	5.3	J	5	J	1.8	J	1.9	J	1.6	J	2.3	J
TEQ (Mammalian Toxic. Equiv. Value)[1]	NG/KG	1.8	J	11	J	10	J	4.4	J	4.9	J	3.5	J	5.1	J
Tetrachlorodibenzodioxin (Total)	NG/KG	0.92	J	7.6	J	8.2	J	3.5	J	3.8	J	2.6	J	4.7	J
Tetrachlorodibenzofuran (Total)	NG/KG	1.5	J	10	J	8.7	J	3	J	2.9	J	2.5	J	4.2	J

U-Analyte not detected at or above reporting limit.
J-Identification of analyte is acceptable; reported value is an estimate.
[1] From WHO TEQ-98

Figure 1
DuPont & NCBC Facilities
Coastal Mississippi

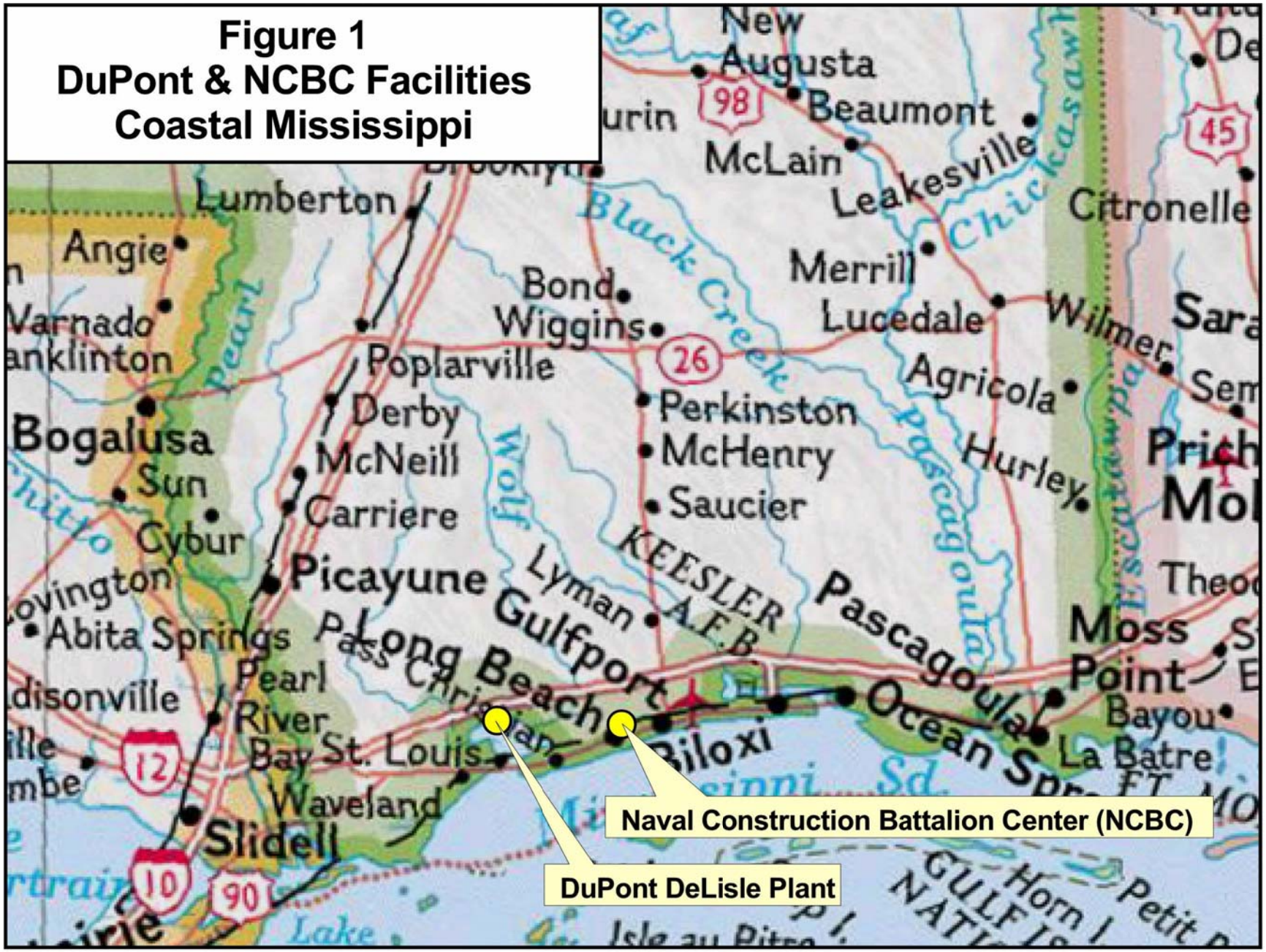
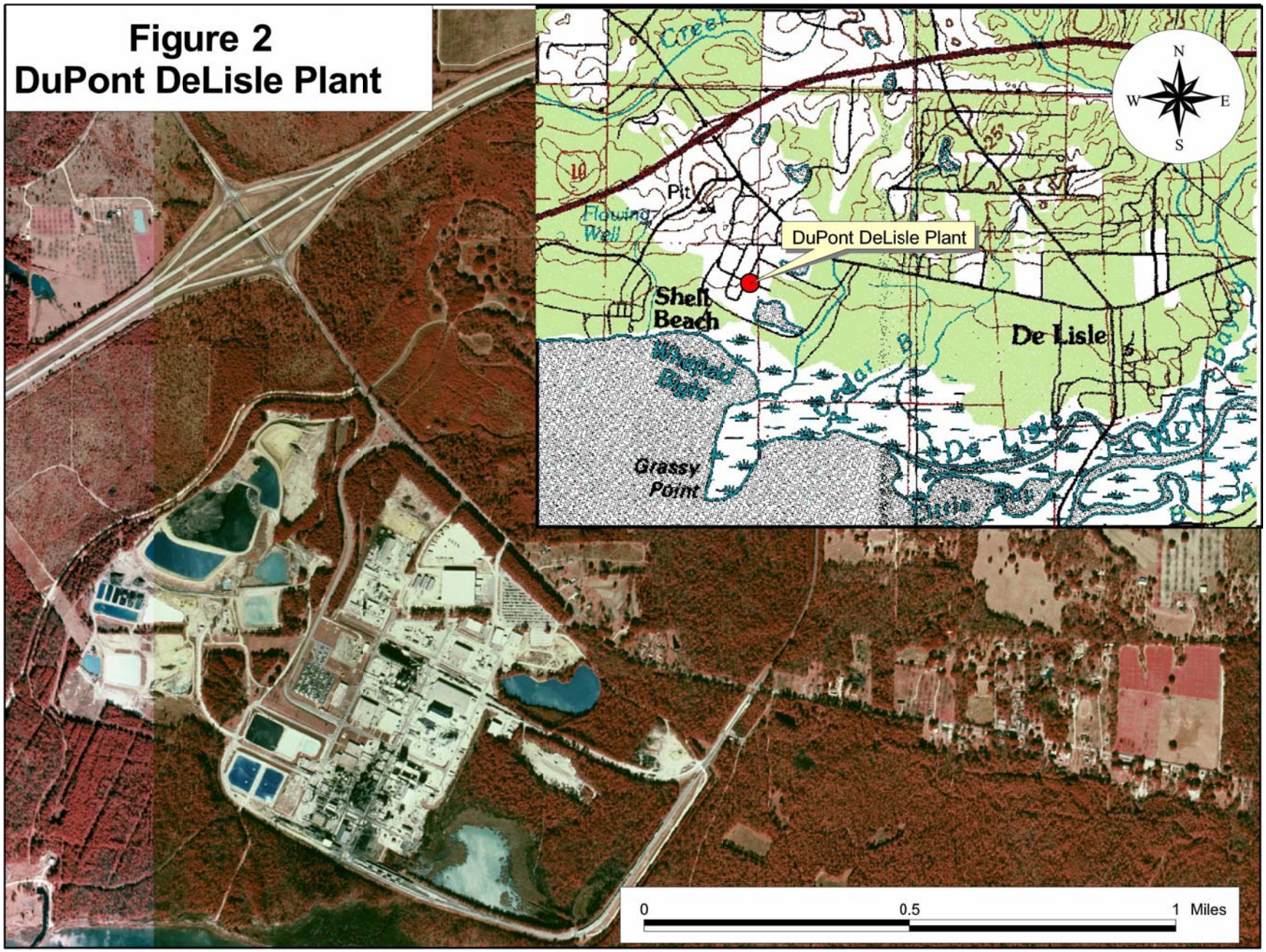


Figure 2
DuPont DeLisle Plant



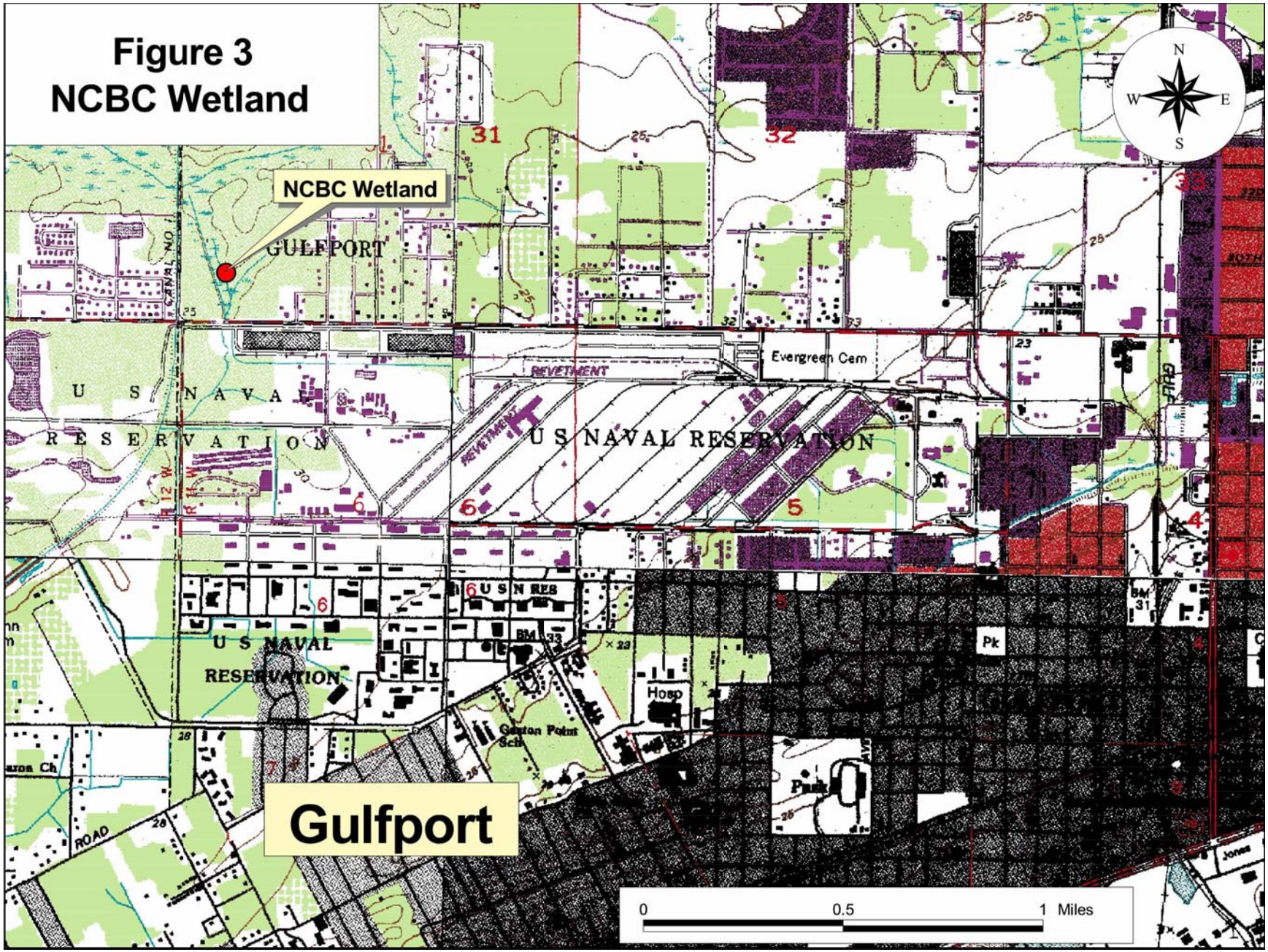


Figure 3
NCBC Wetland
NCBC Wetland
GULFPORT
U S NAVAL RESERVATION
U S NAVAL RESERVATION
U S NAVAL RESERVATION
Evergreen Cem
REVETMENT
REVETMENT
U S N RES
Hosp
Pk
Pk
Gaston Point Sch
ROAD
Gulfport
0
0.5
1 Miles
N
W
E
S


Figure 4
DuPont DeLisle
Sampling Locations
N
W
E
S
DU-SF-05
DU-SF-04
DU-SF-03
DU-SD-01
DU-SD-02
SLB6
SLB2
0 1000 2000 3000 4000 5000 Feet
G:/Katrina/EIB/Facility_data/Maps/fig_04.apr

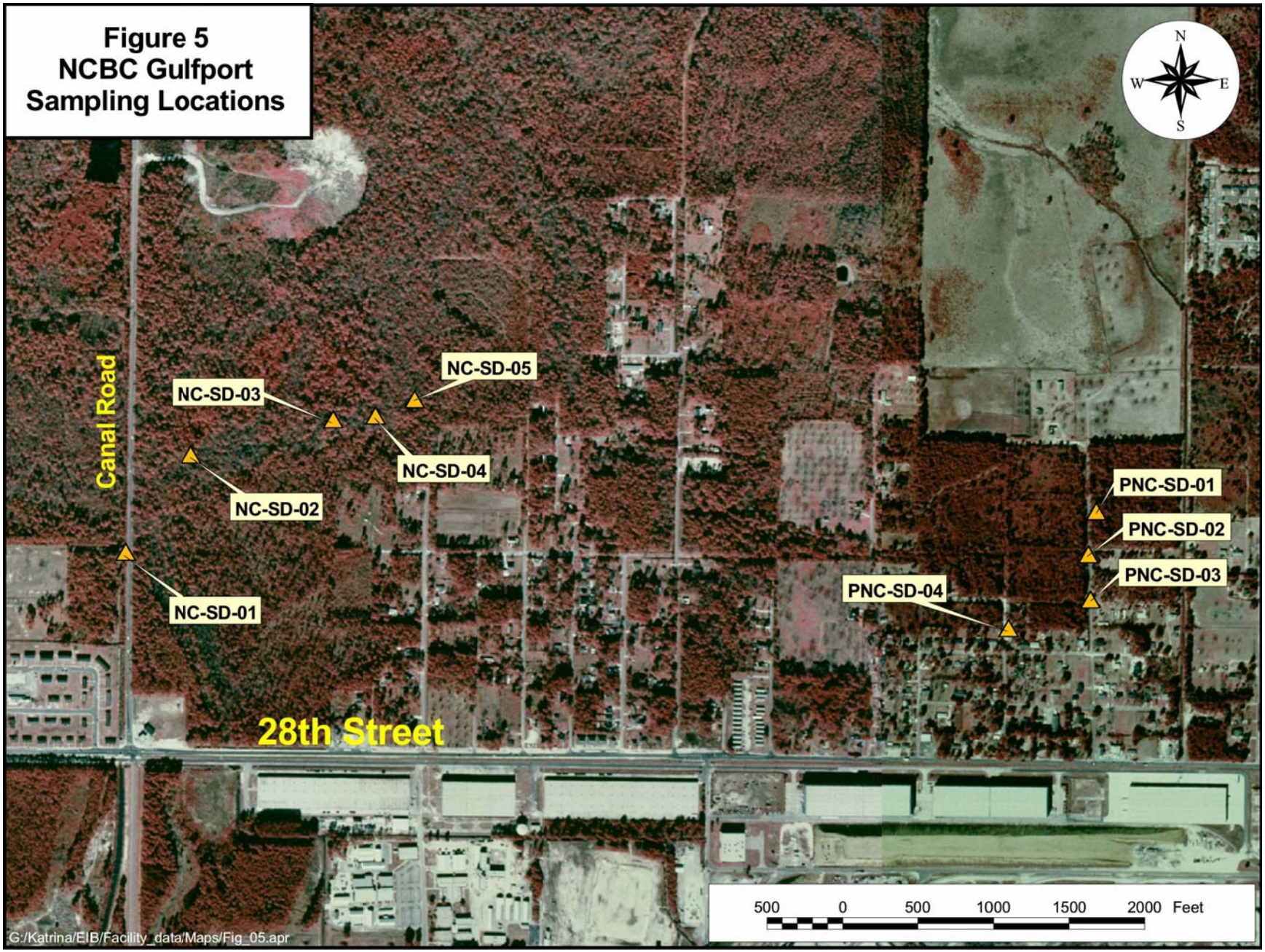


Figure 5
NCBC Gulfport
Sampling Locations
N
W
E
S
Canal Road
NC-SD-05
NC-SD-03
NC-SD-04
NC-SD-02
NC-SD-01
PNC-SD-01
PNC-SD-02
PNC-SD-03
PNC-SD-04
28th Street
500 0 500 1000 1500 2000 Feet
G:/Katrina/EIB/Facility_data/Maps/Fig_05.apr

Sample **1010** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: DU2SD01 /
Media: SEDIMENT D No: SD01

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 08:25
Ending:

RESULTS	UNITS	ANALYTE
0.53 J	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
39 J	NG/KG	Tetrachlorodibenzodioxin (Total)
2.3 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
78 J	NG/KG	Pentachlorodibenzodioxin (Total)
5.1 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
13 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
19	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
520 J	NG/KG	Hexachlorodibenzodioxin (Total)
460	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
1500 J	NG/KG	Heptachlorodibenzodioxin (Total)
8100	NG/KG	Octachlorodibenzodioxin
8.2 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
57 J	NG/KG	Tetrachlorodibenzofuran (Total)
23	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
5.8 J	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
93 J	NG/KG	Pentachlorodibenzofuran (Total)
140	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
17	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
38 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
9.2 J	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
250 J	NG/KG	Hexachlorodibenzofuran (Total)
220	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
120	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
520	NG/KG	Heptachlorodibenzofuran (Total)
4800	NG/KG	Octachlorodibenzofuran
41 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
35 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
46 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
78	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1011** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: DU2SD01D /
Media: SEDIMENT D No: D01D

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 08:25
Ending:

RESULTS	UNITS	ANALYTE
0.55 U	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
37 J	NG/KG	Tetrachlorodibenzodioxin (Total)
2.3 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
78 J	NG/KG	Pentachlorodibenzodioxin (Total)
5.2 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
12 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
20	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
520 J	NG/KG	Hexachlorodibenzodioxin (Total)
450	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
1500 J	NG/KG	Heptachlorodibenzodioxin (Total)
8100	NG/KG	Octachlorodibenzodioxin
8.9 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
54 J	NG/KG	Tetrachlorodibenzofuran (Total)
22	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
5.2 J	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
92 J	NG/KG	Pentachlorodibenzofuran (Total)
140	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
17	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
32 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
8.7 J	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
230 J	NG/KG	Hexachlorodibenzofuran (Total)
210	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
110	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
480 J	NG/KG	Heptachlorodibenzofuran (Total)
4500	NG/KG	Octachlorodibenzofuran
40 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
34 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
46 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
78	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1012** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: DU2SD02 /
Media: SEDIMENT D No: SD02

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 09:35
Ending:

RESULTS	UNITS	ANALYTE
0.18 U	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
4.2 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.50 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
10 J	NG/KG	Pentachlorodibenzodioxin (Total)
1.0 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
1.9 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
3.8 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
65 J	NG/KG	Hexachlorodibenzodioxin (Total)
67	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
200 J	NG/KG	Heptachlorodibenzodioxin (Total)
1500	NG/KG	Octachlorodibenzodioxin
0.23 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
5.2 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.35 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.31 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
0.83 J	NG/KG	Pentachlorodibenzofuran (Total)
0.55 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.25 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.55 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.31 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
3.0 J	NG/KG	Hexachlorodibenzofuran (Total)
2.5 U	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.35 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
200 J	NG/KG	Heptachlorodibenzofuran (Total)
8.4 J	NG/KG	Octachlorodibenzofuran
2.6 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
1.7 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
1.9 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
16	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1013** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: DU2SF03 /
Media: SURFACE SOIL D No: SF03

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 11:10
Ending:

RESULTS	UNITS	ANALYTE
0.14 U	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
0.49 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.63 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
2.3 J	NG/KG	Pentachlorodibenzodioxin (Total)
1.2 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
2.5 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
2.7 J	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
19 J	NG/KG	Hexachlorodibenzodioxin (Total)
63	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
120 J	NG/KG	Heptachlorodibenzodioxin (Total)
640	NG/KG	Octachlorodibenzodioxin
0.22 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
3.1 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.24 J	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.43 J	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
5.8 J	NG/KG	Pentachlorodibenzofuran (Total)
0.73 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.57 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.46 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.87 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
13 J	NG/KG	Hexachlorodibenzofuran (Total)
14 U	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.88 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
23 J	NG/KG	Heptachlorodibenzofuran (Total)
52	NG/KG	Octachlorodibenzofuran
2.8 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
2.1 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
2.2 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
10	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1014** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: DU2SF04 /
Media: SURFACE SOIL D No: SF04

SAS Number:DIOX

Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 10:50
Ending:

RESULTS	UNITS	ANALYTE
0.15 U	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
0.23 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.57 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
1.3 J	NG/KG	Pentachlorodibenzodioxin (Total)
1.6 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
3.4 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
3.4 J	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
23 J	NG/KG	Hexachlorodibenzodioxin (Total)
97	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
180 J	NG/KG	Heptachlorodibenzodioxin (Total)
770	NG/KG	Octachlorodibenzodioxin
0.18 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
1.1 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.21 J	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.25 J	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
3.5 J	NG/KG	Pentachlorodibenzofuran (Total)
0.69 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.75 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.30 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
1.2 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
22 J	NG/KG	Hexachlorodibenzofuran (Total)
32	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
1.3 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
75 J	NG/KG	Heptachlorodibenzofuran (Total)
80	NG/KG	Octachlorodibenzofuran
3.4 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
2.4 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
2.3 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
9	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1015** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: DU2SF05 /
Media: SURFACE SOIL D No: SF05

SAS Number:DIOX

Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 10:30
Ending:

RESULTS	UNITS	ANALYTE
0.064 U	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
0.064 UJ	NG/KG	Tetrachlorodibenzodioxin (Total)
0.18 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
0.58 J	NG/KG	Pentachlorodibenzodioxin (Total)
0.27 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
0.56 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
0.46 J	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
3.0 J	NG/KG	Hexachlorodibenzodioxin (Total)
10	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
23 J	NG/KG	Heptachlorodibenzodioxin (Total)
110	NG/KG	Octachlorodibenzodioxin
0.20 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
1.5 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.20 J	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.24 J	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
1.8 J	NG/KG	Pentachlorodibenzofuran (Total)
0.36 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.23 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.24 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.29 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
2.9 J	NG/KG	Hexachlorodibenzofuran (Total)
3.0 J	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.39 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
6.8 J	NG/KG	Heptachlorodibenzofuran (Total)
11	NG/KG	Octachlorodibenzofuran
0.78 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
0.63 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
0.87 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
10	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1016** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: DU2SF05S /
Media: SURFACE SOIL D No: SF05

SAS Number:DIOX

Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 10:30
Ending:

RESULTS	UNITS	ANALYTE
0.074 U	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
0.30 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.16 U	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
0.26 J	NG/KG	Pentachlorodibenzodioxin (Total)
0.26 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
0.53 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
0.35 J	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
4.4 J	NG/KG	Hexachlorodibenzodioxin (Total)
10	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
23 J	NG/KG	Heptachlorodibenzodioxin (Total)
110	NG/KG	Octachlorodibenzodioxin
0.21 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
1.6 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.21 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.22 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
1.7 J	NG/KG	Pentachlorodibenzofuran (Total)
0.34 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.23 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.20 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.30 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
3.3 J	NG/KG	Hexachlorodibenzofuran (Total)
3.0 J	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.40 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
3.7 J	NG/KG	Heptachlorodibenzofuran (Total)
12	NG/KG	Octachlorodibenzofuran
0.74 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
0.59 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
0.83 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
9	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1017** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: NC2SD01 /
Media: SEDIMENT D No: SD01

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 14:30
Ending:

RESULTS	UNITS	ANALYTE
0.80 J	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
0.92 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.21 U	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
1.1 J	NG/KG	Pentachlorodibenzodioxin (Total)
0.33 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
1.1 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
0.72 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
7.7 J	NG/KG	Hexachlorodibenzodioxin (Total)
18	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
36 J	NG/KG	Heptachlorodibenzodioxin (Total)
130	NG/KG	Octachlorodibenzodioxin
0.35 J	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
1.5 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.18 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.30 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
3.5 J	NG/KG	Pentachlorodibenzofuran (Total)
0.42 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.33 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.18 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.34 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
8.7 J	NG/KG	Hexachlorodibenzofuran (Total)
5.3	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.43 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
17 J	NG/KG	Heptachlorodibenzofuran (Total)
6.4 J	NG/KG	Octachlorodibenzofuran
1.8 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
0.78 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
1.2 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
22	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1018** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: NC2SD02 /
Media: SEDIMENT D No: SD02

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 14:15
Ending:

RESULTS	UNITS	ANALYTE
5.0	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
7.6 J	NG/KG	Tetrachlorodibenzodioxin (Total)
1.0 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
7.4 J	NG/KG	Pentachlorodibenzodioxin (Total)
1.9 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
5.4	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
12	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
68 J	NG/KG	Hexachlorodibenzodioxin (Total)
150	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
290 J	NG/KG	Heptachlorodibenzodioxin (Total)
2000	NG/KG	Octachlorodibenzodioxin
0.98 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
10 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.50 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.95 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
16 J	NG/KG	Pentachlorodibenzofuran (Total)
1.4 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
1.1 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.40 J	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
1.5 J	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
29 J	NG/KG	Hexachlorodibenzofuran (Total)
23 U	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.99 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
33 J	NG/KG	Heptachlorodibenzofuran (Total)
43	NG/KG	Octachlorodibenzofuran
11 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
3.7 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
5.3 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
29	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1019** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: NC2SD02S /
Media: SEDIMENT D No: SD02S

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 14:15
Ending:

RESULTS	UNITS	ANALYTE
4.8	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
8.2 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.99 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
4.4 J	NG/KG	Pentachlorodibenzodioxin (Total)
1.9 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
5.0	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
11	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
64 J	NG/KG	Hexachlorodibenzodioxin (Total)
140	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
270 J	NG/KG	Heptachlorodibenzodioxin (Total)
1900	NG/KG	Octachlorodibenzodioxin
1.0 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
8.7 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.45 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.81 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
16 J	NG/KG	Pentachlorodibenzofuran (Total)
1.3 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
1.1 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.24 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
1.5 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
23 J	NG/KG	Hexachlorodibenzofuran (Total)
22 U	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.84 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
250 J	NG/KG	Heptachlorodibenzofuran (Total)
43	NG/KG	Octachlorodibenzofuran
10 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
3.5 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
5.0 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
18	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1020** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: NC2SD03 /
Media: SEDIMENT D No: SD03

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 13:50
Ending:

RESULTS	UNITS	ANALYTE
2.6	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
3.5 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.27 U	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
1.0 J	NG/KG	Pentachlorodibenzodioxin (Total)
0.38 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
1.3 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
5.0	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
20 J	NG/KG	Hexachlorodibenzodioxin (Total)
41	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
75 J	NG/KG	Heptachlorodibenzodioxin (Total)
490	NG/KG	Octachlorodibenzodioxin
0.48 J	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
3.0 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.16 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.29 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
3.3 J	NG/KG	Pentachlorodibenzofuran (Total)
0.32 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.29 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.11 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.33 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
5.1 J	NG/KG	Hexachlorodibenzofuran (Total)
5.6 U	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.27 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
8.0 J	NG/KG	Heptachlorodibenzofuran (Total)
10	NG/KG	Octachlorodibenzofuran
4.4 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
0.95 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
1.8 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
25	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1021** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: NC2SD03D /
Media: SEDIMENT

D No: SD03D

SAS Number:DIOX

Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 13:55
Ending:

RESULTS	UNITS	ANALYTE
3.0	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
3.8 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.31 U	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
1.6 J	NG/KG	Pentachlorodibenzodioxin (Total)
0.39 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
1.5 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
5.4	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
22 J	NG/KG	Hexachlorodibenzodioxin (Total)
46	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
85 J	NG/KG	Heptachlorodibenzodioxin (Total)
560	NG/KG	Octachlorodibenzodioxin
0.46 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
2.9 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.16 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.26 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
4.1 J	NG/KG	Pentachlorodibenzofuran (Total)
0.36 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.32 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.11 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.38 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
6.0 J	NG/KG	Hexachlorodibenzofuran (Total)
6.5 U	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.24 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
9.7 J	NG/KG	Heptachlorodibenzofuran (Total)
14	NG/KG	Octachlorodibenzofuran
4.9 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
1.0 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
1.9 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
24	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1022** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: NC2SD04 /
Media: SEDIMENT D No: SD04

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 13:35
Ending:

RESULTS	UNITS	ANALYTE
1.8	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
2.6 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.31 U	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
2.2 J	NG/KG	Pentachlorodibenzodioxin (Total)
0.50 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
1.4 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
3.8 J	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
20 J	NG/KG	Hexachlorodibenzodioxin (Total)
44	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
88 J	NG/KG	Heptachlorodibenzodioxin (Total)
740	NG/KG	Octachlorodibenzodioxin
0.31 J	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
2.5 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.15 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.22 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
2.9 J	NG/KG	Pentachlorodibenzofuran (Total)
0.34 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.32 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.11 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.37 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
5.5 J	NG/KG	Hexachlorodibenzofuran (Total)
6.0 U	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.30 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
0.63 J	NG/KG	Heptachlorodibenzofuran (Total)
13	NG/KG	Octachlorodibenzofuran
3.5 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
1.0 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
1.6 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
26	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **1023** FY **2006** Project: **06-0102**

Dioxin Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: NC2SD05 /
Media: SEDIMENT D No: SD05

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 13:20
Ending:

RESULTS	UNITS	ANALYTE
2.5	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
4.7 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.42 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
5.3 J	NG/KG	Pentachlorodibenzodioxin (Total)
0.70 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
1.9 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
6.7	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
35 J	NG/KG	Hexachlorodibenzodioxin (Total)
71	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
140 J	NG/KG	Heptachlorodibenzodioxin (Total)
1200	NG/KG	Octachlorodibenzodioxin
0.47 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
4.2 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.17 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.30 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
4.0 J	NG/KG	Pentachlorodibenzofuran (Total)
0.44 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.41 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.11 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.44 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
7.2 J	NG/KG	Hexachlorodibenzofuran (Total)
8.0 U	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.37 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
11 J	NG/KG	Heptachlorodibenzofuran (Total)
14	NG/KG	Octachlorodibenzofuran
5.1 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
1.5 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
2.3 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
36	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

DIOXINS SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 10/21/2005 15:37**

Sample **9623** FY **2005** Project: **05-0927**

Dioxin Scan

Facility: Mississippi Gulf Coast Monitoring Study
Program: WQU
Id/Station: SLB2SD /
Media: SEDIMENT D No: SLB2S

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor: MDEQ
Project Leader: MKOENIG
Beginning: 09/30/2005 15:20
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
5.5 J	NG/KG	Tetrachlorodibenzodioxin (Total)
0.22 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
11 J	NG/KG	Pentachlorodibenzodioxin (Total)
0.56 J	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
1.1 J	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
2.3	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
75 J	NG/KG	Hexachlorodibenzodioxin (Total)
50	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
180 J	NG/KG	Heptachlorodibenzodioxin (Total)
1100	NG/KG	Octachlorodibenzodioxin
0.16 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
0.74 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.10 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.15 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
0.57 J	NG/KG	Pentachlorodibenzofuran (Total)
0.17 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
0.17 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.089 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
0.17 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
1.6 J	NG/KG	Hexachlorodibenzofuran (Total)
1.4 J	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
0.15 J	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
3.4 J	NG/KG	Heptachlorodibenzofuran (Total)
3.2 J	NG/KG	Octachlorodibenzofuran
1.5 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
1.2 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
1.0 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
23	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

DIOXINS SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 10/21/2005 15:37**

Sample **9624** FY **2005** Project: **05-0927**

Dioxin Scan

Facility: Mississippi Gulf Coast Monitoring Study
Program: WQU
Id/Station: SLB6SD /
Media: SEDIMENT D No: SLB6S

SAS Number:DIOX
Org Contractor: PARADI

Produced by: Appleby, Charlie
Requestor: MDEQ
Project Leader: MKOENIG
Beginning: 09/30/2005 10:40
Ending:

RESULTS	UNITS	ANALYTE
0.30 U	NG/KG	2,3,7,8-Tetrachlorodibenzodioxin
44 J	NG/KG	Tetrachlorodibenzodioxin (Total)
1.2 J	NG/KG	1,2,3,7,8-Pentachlorodibenzodioxin
84 J	NG/KG	Pentachlorodibenzodioxin (Total)
3.9	NG/KG	1,2,3,4,7,8-Hexachlorodibenzodioxin
7.5	NG/KG	1,2,3,6,7,8-Hexachlorodibenzodioxin
16	NG/KG	1,2,3,7,8,9-Hexachlorodibenzodioxin
520 J	NG/KG	Hexachlorodibenzodioxin (Total)
330	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzodioxin
1200 J	NG/KG	Heptachlorodibenzodioxin (Total)
5700 J	NG/KG	Octachlorodibenzodioxin
0.53 U	NG/KG	2,3,7,8-Tetrachlorodibenzofuran
7.9 J	NG/KG	Tetrachlorodibenzofuran (Total)
0.40 U	NG/KG	1,2,3,7,8-Pentachlorodibenzofuran
0.58 U	NG/KG	2,3,4,7,8-Pentachlorodibenzofuran
6.1 J	NG/KG	Pentachlorodibenzofuran (Total)
1.0 U	NG/KG	1,2,3,4,7,8-Hexachlorodibenzofuran
1.1 U	NG/KG	1,2,3,6,7,8-Hexachlorodibenzofuran
0.36 U	NG/KG	1,2,3,7,8,9-Hexachlorodibenzofuran
1.4 U	NG/KG	2,3,4,6,7,8-Hexachlorodibenzofuran
11 J	NG/KG	Hexachlorodibenzofuran (Total)
9.1	NG/KG	1,2,3,4,6,7,8-Heptachlorodibenzofuran
1.1 U	NG/KG	1,2,3,4,7,8,9-Heptachlorodibenzofuran
22 J	NG/KG	Heptachlorodibenzofuran (Total)
19	NG/KG	Octachlorodibenzofuran
8.9 J	NG/KG	TEQ (Mammalian Toxic. Equiv. Value, From WHO TEQ-98)
5.8 J	NG/KG	TEQ (Avian Toxic. Equiv. Value, From WHO TEQ-98)
5.3 J	NG/KG	TEQ (Fish Toxic. Equiv. Value, From WHO TEQ-98)
55	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

Sample **879** FY **2006** Project: **06-0111**

PCB Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: PNCSD01 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 14:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
100 U	UG/KG	PCB-1242 (Aroclor 1242)
100 U	UG/KG	PCB-1254 (Aroclor 1254)
100 U	UG/KG	PCB-1221 (Aroclor 1221)
100 U	UG/KG	PCB-1232 (Aroclor 1232)
100 U	UG/KG	PCB-1248 (Aroclor 1248)
100 U	UG/KG	PCB-1260 (Aroclor 1260)
100 U	UG/KG	PCB-1016 (Aroclor 1016)
18	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

Sample **880** FY **2006** Project: **06-0111**

PCB Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: PNCSD02 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 15:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
100 U	UG/KG	PCB-1242 (Aroclor 1242)
100 U	UG/KG	PCB-1254 (Aroclor 1254)
100 U	UG/KG	PCB-1221 (Aroclor 1221)
100 U	UG/KG	PCB-1232 (Aroclor 1232)
100 U	UG/KG	PCB-1248 (Aroclor 1248)
100 U	UG/KG	PCB-1260 (Aroclor 1260)
100 U	UG/KG	PCB-1016 (Aroclor 1016)
13	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

Sample **881** FY **2006** Project: **06-0111**

PCB Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: PNCSD03 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 15:15
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
100 U	UG/KG	PCB-1242 (Aroclor 1242)
100 U	UG/KG	PCB-1254 (Aroclor 1254)
100 U	UG/KG	PCB-1221 (Aroclor 1221)
100 U	UG/KG	PCB-1232 (Aroclor 1232)
100 U	UG/KG	PCB-1248 (Aroclor 1248)
100 U	UG/KG	PCB-1260 (Aroclor 1260)
100 U	UG/KG	PCB-1016 (Aroclor 1016)
25	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

Sample **882** FY **2006** Project: **06-0111**

PCB Scan

Facility: Hurricane Katrina Response
Program: SF
Id/Station: PNCSD04 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: FSLOAN
Beginning: 11/16/2005 15:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
100 U	UG/KG	PCB-1242 (Aroclor 1242)
100 U	UG/KG	PCB-1254 (Aroclor 1254)
100 U	UG/KG	PCB-1221 (Aroclor 1221)
100 U	UG/KG	PCB-1232 (Aroclor 1232)
100 U	UG/KG	PCB-1248 (Aroclor 1248)
100 U	UG/KG	PCB-1260 (Aroclor 1260)
100 U	UG/KG	PCB-1016 (Aroclor 1016)
16	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane